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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/528,704	03/22/2005	Takanori Saito	033082M248	8938	
SMITH, GAMBRELL & RUSSELL 1850 M STREET, N.W., SUITE 800 WASHINGTON, DC 20036			EXAMINER		
			WILSON, G	WILSON, GREGORY A	
			ART UNIT	PAPER NUMBER	
			3749		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	04/13/2007	DADED		

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
		10/528,704	SAITO ET AL.				
Office Action Summary		Examiner	Art Unit				
	·	Gregory A. Wilson	3749				
	The MAILING DATE of this communication app		<u> </u>				
Period fo	• •	•					
WHIC - Exter after - If NO - Failu Any (	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status			•				
1)⊠	Responsive to communication(s) filed on 22 M	larch 2005.	•				
2a) <u></u>	This action is <b>FINAL</b> . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Dispositi	on of Claims						
•	Claim(s) <u>1-14,27,29,31 and 33-39</u> is/are pendi	ng in the application	•				
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5)⊠ Claim(s) <u>27,29,31 and 33-39</u> is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1 and 10</u> is/are rejected.						
7)[🛛	☐ Claim(s) <u>2-9 and 11-14</u> is/are objected to.						
8)	Claim(s) are subject to restriction and/o	r election requirement.	. •				
Applicati	on Papers						
	The specification is objected to by the Examine	ır.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
•	Acknowledgment is made of a claim for foreign	priority under 35 U S C 8 119(a	)-(d) or (f)				
· —		·	, (3, 3, (1).				
٠,,	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents		ion No				
	3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage				
	application from the International Bureau	u (PCT Rule 17.2(a)).	·				
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D 5) Notice of Informal F					
	mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date <u>3/22/05, 12/21/05, 11/20/06</u> .	6) Other:	atent Application				

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#### **DETAILED ACTION**

# **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1 and 10 are rejected under 35 U.S.C. 102(a) as being anticipated by Saito (6,736,636). Saito discloses a thermal processing unit (1) including a furnace body with an open upper end to accommodate a narrowing reaction tube (3a) contained in the furnace body, a gas discharging unit (23) connecting the upper portion of the reaction tube through the upper end of the furnace, a wafer boat (2) for supporting a substrate (w) to be processed, a heating unit (11) which is arranged around the reaction tube, the gas discharging unit connecting part to the reaction tube, the upper portion of the reaction tube, and a lower portion of the reaction tube and also a heating element (35) arranged under the wafer boat along the lower surface thereof.

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## Allowable Subject Matter

Claims 2-9 and 11-14 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 27, 29, 31 and 33-39 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory A. Wilson whose telephone number is (571)272-4882. The examiner can normally be reached on 7 am - 4:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Rinehart can be reached on (571) 272-4881. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GREGORY WILSON

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April 11, 2007